and winning manners, of scholarly habits and wide reading, of an inquiring and original turn of mind, the fruitfulness of which was subdued by chronic invalidism. When he went to Paris he took with him his herbarium, which for that time was musually rich in plants of Lower Georgia and Florida; and we remember his remark that his botanical acquaintances there made very free use of his permission to help themselves to the duplicates. 'Ihere is reason to think, accordingly, that the remains of it which went to the Philadelphia Acalemy of Natural sciences will not throw all the light which might be expected upon the species of phants. which were described in his published papers.

His old friends, Torrey and Wm. Cooper, named in his honor the genus which, as it proved, liafinesque hat some years earlier named Peltandra. And the opportunity was soon lost of commemorating his name in a plant of his own country: for Achille Richard in Paris, in 1829, bestowed the name of Lerontife upon a genus of Madagascar Rubiucere, now of five species. Although the name of John E. LeConte is best known to fame, it onght to be recorded that his brother, Louis, was also a keen botanist and excellent observer. The writer of this notice never knew him personally, for all but the earlier years of his life were passed upon the family plantation in Georgia. His name is mentioned in the perface as one of the contributors to Torrey \& Gray's Flora of North America; and he deserved well of science in another respect, for he was the father of the two LeContes-President and Professorof the University of California.-A. (trar.

## A New Walking-Fern. <br> (Plate III.)

Although the variation of the common walking-fern (C'omptosorus thizophyllus) is very considerable, all the forms show a more or less amricled base. The amricles of the small forms are often so broad as to be nearly conflnent with the stipe. On the other hand, I am informed by Mr. Davenport that in his herbarinm are specimens with the base of the blade simply obtuse, the amricles having become quite obsolescent. But the latter is a rare occurrence, and appears to be the extreme of variation in the direction of a narrowed base. The interesting form of which an ilhstration is given herewith, has the striking peculiarity of an acute base withont proper auricles. It was found and communicated by Mr. J. G. Haupt in Muscatine County, Iowa. It covered a few square yards, and was seen in but the one spot. The common form grew a few rods away, and by its luxuriance and large size gave prominence to the new kind.

The character of the base, together with some others, shows a considerable divergence fron the typical form, and seems to indi-
cate an established variety, or at least a well maked form. Whether a good rariety or not can better be told after the study of a larger number of specimens and from other localities. There is at least sufficient peculiarity to merit a careful description, and for the present, the rank of rariety may be assumed.

Camptosores rhizophyllés, Link, val. intermedius (n. v.). Rootstalk short, ascending, clothed with a few dark-brown scales; stipe green, with a brown base, containing in single ronnded-triangular tibro-vascular bundle without accompanying sclerenchyma; fronds dimorphons, subcoriaceous, thimish; sterile frond 2 to 4 inches long, triangular-acuminate, sometimes prolonged and rooting; base broadly wedge-shape; apex blunt; fertile frond $t$ to 12 inches long, narrowly lanceolate, broadest close to the base, greatly attennated and prolonged, rooting at the apex; base acute, broadly wedge-shape, never cordate: veins strongly ascending, anastomosing and forming abont two series of areole; sori few, oblong, sometimes in pars, or confluent at the uper part of the areolæ; indusium smooth, delicate, with a sinuous margin; spores ovoid, with broad anastomosing wings of irregular width. Sterile blade $\frac{1}{5}$ to $\frac{1}{2}$ inch broad near the base, fertile blade $\frac{1}{4}$ to $\frac{: 3}{4}$ inch broad.

Limestone clifts in Eastern Jowa.
The features which distinguish this from the typical form are the single fibro-vascular bundle of the stipe without an anterior nation of selerenchyma, thinmer and narrower fronds, simpler vethread, acute base, shorter sori, and the greater differentiation of sterile and fertile fronds. Of these characters the most pronounced are the bundle of the stipe and the base of the blade.

It is a significant fact that the deriations from the trpe are all in the diraction of the only other known species of the genus, $($ '. Shbiricus, a native of northeastern Asta. Su considerable is the ap, proach toward that species that if our plant had been found in company with the foreign instead of the home sort. I doubt not it would have been set down as a gennine variety of the former. I have not, however, seen specimens of C. Silbivicu, and cannot speak with perfect confidence, but form my judgment from the extended and very complete description given in Milde's Filices Eur. et 1 tllen., and the figure in Hooker's 2 nd Centruy of Ferns. Professor Eaton writes me that a specimen in his herbarium corresponds closely with Hooker's illustration except it is not so large. The opinion of Linnaus that only one variable species of (amptosor"us exists, may again find faror. At any rate the form under discussion is quite intermediate between the two established species. Dne character, however, yet to be mentioned, marks the closer affinity with C. rhizophyllus. It is the widening of the blade above the triangular base. By referring to the illustration, the slight Bobation of the blade at the widest part is evident in every frond. These incipient lateral lobes are not auricles, but are of the nature of
the lateral prolongations occasionally produced by C. Fhizoplıyllus, and well illustrated in Eaton's Ferns of North Americe. In C.sibiricus both the auricles and the lateral developments are wanting, and the greatest brearth is still farther trom the base of the blade. The character of the axial bundle is very marked, and should not be disirgarderl.-J. C. Artiur.

Explanation of Plate III.-An entire plant of natural size showing four sterile fronds and a small fertile fromd.

A single fertile frond of natural size with a plantlet growing from the apex.

Portion of the same fromd enlarged six diameters, showing the vemation and position of the sorm.

Cross-sertion of a fertile stipe magnified thirty-fice diameters, and drawn with caunera lueida.

## Notes on the Virginia Crecper.

A number of years ago I communicated to the Acrultery of
 had one temdril, and that the leares opposite the temdrils had no axillary buts. About the time of the publication of my remarks I twitted in pleasant rein the anthor of " How plonts Belococe" with inaccuracy, because the cut at 1 . 17 had an axillary bud opposite to a tendril. 'Io my amazed discomfiture he replied by sending me a fresh specimen just like his drawing! It was a good lesson to me on the nse of "never" hy a botanist. I have since seen sureh caser. but rery seldom. The rule is as I then moted. In the Jalan suecies, Ampulopsis tricu:pielutu (1. Ieitchii of gardens), the rule is the sime. Mohr, a German writer on the grape vine notes that there are regular intemissions of tendrils in the grape vine and Dr. Engelmam since, but 1 believe quite intependently, olserved the same, and at one time beliored the fact molit be made of value in the diagnosis of species. Much does not seem to have been made of it howerer in this thection. In the grape there is not the same constancy in the nomerical oreler as in the Virgina Creeper. In litis indicise I find a tendril at every node. ln other species of Titis and $A m p$ plopsis, there are irregnlarities.

It is worth noting how forpelopsis quinguefulier varies. In 1571 and ' $7: 3$ I collected it in the ricinity of Pike's Peak with narrow, laciniate, and somewhat glancons leaves. Mr. Buckley notes it in Texas as often bearing seven leaflets, where it is his I. heptsphyllu. In Camada I find six leaflets common, with often the rudiments of a serenth. In the uneer Delaware regions I have often gathered them with hot three. In Pennsylvania the chisf reins diverge and move as they apmach the mangin. At Niagara I found them as near ly parallel and straight as jn a horee ehtotnont. A first glance at one on Goat Island once, as it ran orer a tree, gave me a pleasantsurprise that I was looking at an , Eiculus.

Some years ago a large Amplopy is coverd a Cermolls srotine

